

## SEQUENCE LISTING

<110> Lin, Chieh-Sheng  
 Sun, Yu-Ling  
 Yang, Ping-Cheng  
 Tu, Ching-Fu  
 Wu, Shinn-Chih

<120> Expression Vector for Hirudin and Transformed Cells and Transgenic Animals Containing Said Vector

<130> P1393

<160> 12

<170> PatentIn version 3.1

<210> 1  
 <211> 104  
 <212> DNA  
 <213> Hirudo medicinalis

<400> 1  
 gatcctttat ggttgtttac actgactgca ctgaatccgg tcagaacctg tgccctgtgcg 60  
 aaggctctaa cgtttgcggc cagggcaaca aatgcatttcct gggc 104

<210> 2  
 <211> 107  
 <212> DNA  
 <213> Hirudo medicinalis

<400> 2  
 ctcttagagcc caggatgcat ttgttgcctt ggccgcaaac gtttagaggct tcgcacaggc 60  
 acaggttctg accggattca gtgcagttag taaaacaac cataaag 107

<210> 3  
 <211> 111  
 <212> DNA  
 <213> Hirudo medicinalis

<400> 3  
 tcttagaggcg aaaaaaatca atgcgttact ggcgaaggta ctccacaagg ctttgaatcc 60  
 cggagaata gaaaccgcag tctccgacga cagaacctgc aataataggc 111  
 c

<210> 4  
 <211> 108  
 <212> DNA  
 <213> Hirudo medicinalis

<400> 4  
 ggccgcctta ttattgcagg tattttccg ggatttcttc aaagtcgccg tcgttgtgag 60  
 actgcgggtt cggagtagct tcgccagtaa cgcattgatt ttttcgc 108

<210> 5  
 <211> 33

<212> DNA  
<213> Hirudo medicinalis

<400> 5  
tcgggatct ttatgggttgc ttacactgac tgc

33

<210> 6  
<211> 31  
<212> DNA  
<213> Hirudo medicinalis

<400> 6  
gcctctagag cccaggatgc atttgttgc c

31

<210> 7  
<211> 38  
<212> DNA  
<213> Hirudo medicinalis

<400> 7  
ggctctagag gcgaaaaaaaaa tcaatgcgtt actggcga

38

<210> 8  
<211> 32  
<212> DNA  
<213> Hirudo medicinalis

<400> 8  
catgcggccg ccctattatt gcaggtattc tt

32

<210> 9  
<211> 215  
<212> DNA  
<213> Hirudo medicinalis

<400> 9  
gatcctttat gggtgtttac actgactgca ctgaatccgg tcagaacctg tgccctgtgcg  
aaggctctaa cggttgccgc cagggcaaca aatgcattcct gggctctaga ggcgaaaaaaaa  
accagtgcgt tactggcga ggtaccccgaa aaccgcagtc tcacaacgac ggcgacttcg  
aagaaatccc ggaagaatac ctgcagtaat agggc

60

120

180

215

<210> 10  
<211> 66  
<212> PRT  
<213> Hirudo medicinalis

<400> 10  
Met Val Val Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu Cys Leu  
5 10 15  
1

Cys Glu Gly Ser Asn Val Cys Gly Gln Gly Asn Lys Cys Ile Leu Gly  
20 25 30  
Cys Glu Gly Ser Asn Val Cys Gly Gln Gly Asn Lys Cys Ile Leu Gly

Ser Arg Gly Glu Lys Asn Gln Cys Val Thr Gly Glu Gly Thr Pro Lys  
35 40 45

Pro Gln Ser His Asn Asp Gly Asp Phe Glu Glu Ile Pro Glu Glu Tyr  
50 55 60

Leu Gln  
65

<210> 11  
<211> 24  
<212> DNA  
<213> mammalian

<400> 11  
gcttcctaga accaacacta ccag

24

<210> 12  
<211> 21  
<212> DNA  
<213> Hirudo medicinalis

<400> 12  
gtcgccgtcg ttgtgagact g

21